सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली संचार विकास प्रभाग
Power System Communication Development Division
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CEA Case No. : ASM-36		
Induced Voltage(IV) calculation for PTCC proposal of 220 kV D/C Transmission Line from Kathalguri (NEEPCO) Generating Station to 220/132 kV Namsai (PGCIL) S/s. [Length-70.954 km] - Regd.		
S. No	**Reference No.**	**Dated**
(i)	PGCIL: NENMS/2024-25/TBCB-TL/616	06.05.2024
(ii)	PGCIL: e-Mail	12.02.2025
(iii)	BSNL: DET/ER/PTCC/EML270520245863/CEA/01	20.01.2025
(iv)	NEFR: N/146/2/10Pt.VIII(TC)	14.08.2024
(v)	Defense: B/46937/Sigs7(b)/3930	09.08.2024

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on block & telecom circuits of Northeast Frontier Railway with respect to details furnished vide above references (iv) has been computed. The voltages likely to be induced on paralleling block & telecom circuits of Northeast Frontier Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered. DET-PTCC EZ,BSNL and DG Signals, MoD have issued No Objection Certificate (NOC) vide reference (iii) & (v) respectively.

Taking above into consideration, necessary action regarding issuance of PTCC approval for the subject cited transmission line may be taken under intimation to this office.

Signed by Suman Kumar Maharana
Date: 25-02-2025 17:05:20

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Eastern Zone	BSNL, O/o QA & Inspection Circle QA Bhawan, EP-GP Block Sector-V, Salt lake, Kolkata	
2	GM (S&T)	North East Frontier Railway Maligaon, Guwahati	Annexure-I
3	CM PGCIL, Namsai	132 kV Namsai S/s, Manmow Dist.-Namsai, Arunachal Pradesh	

ANNEXURE-I

CEA Case No.: ASM-36 **Name of the Power line**: 220 kV D/C Transmission Line from Kathalguri (NEEPCO) Generating Station to 220/132 kV Namsai (PGCIL) S/s.			**Map Scale :** 1 cm= 500 m **Total Length :** 70.954 km **S.R. Value :** 50000 Ohm-cm		
S.No.	**Telecom. Details**	**Length of Parallelism in Km.**	**Mutual Coupling in Ohms.**	**Effective Fault current in Amps.**	**I.V in Volts.**
North East Frontier Railway Letter No: N/146/2/10Pt.VIII(TC) Dated 14.08.2024					
Affected Blocks & Telecom Circuits Details					
1	Makum R/s – Tingrai R/s	7.0	0.0135	16200	218
2	Tingrai R/s – Digboi R/s	-Out of Parallelism-			